

**CONFIDENTIAL INVENTION
QUESTIONNAIRE****INTRODUCTION**

REDACTED

Your Name: David Wells and Dale Scholtens Date: REDACTED

1. WHAT IS YOUR INVENTION IN "SIMPLE TERMS"? Give a brief, non-technical description—how would you describe it to an interested friend? (See question 8 for the more detailed description.)

SS7 provides means to check the integrity of a circuit between two switching NEs at time of call setup; it is called continuity check (aka COT). COT was originally developed for analog facilities, and relies on sending and receiving tones in both directions along a circuit to assess continuity. Even in digital environments, the COT operation has remained essentially unchanged.

With the advent of packet voice networks and the introduction of adaptation, e.g., between TDM and ATM, it is desirable (some would say *necessary*) that a better quality COT be provided, that is, a form suitable to the packet environment.

The invention provides specifically for COT over narrowband circuits adapted to the ATM domain. This form of COT does not rely on sending and detection of tones, but rather involves an exchange of a known pattern of bits. The operation has the effect of testing not only the integrity of the ATM circuit (which is of questionable value because the circuit is a logical entity), but the adapters at either end of the circuit as well.

2. WHAT DO YOU CALL IT?
Packet COT(?)

INVENTION TITLE:

Method of assuring circuit integrity in a switched packet network.

3. LIST ALL INVENTORS:

David WellsDale Scholtens

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4. PURPOSE OF INVENTION: (What problems does it solve? What is its special value? What applications to Tellabs products? What applications in other fields?)
Initial application of the capability could be with the AN2100GX, for which
The COT operation would check the AAL1 adapters and the path between them.

The invention contemplates other forms of COT which are in principle the
Same, but suited to other forms of adaption and/or packetization.

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5. LIST THE FOLLOWING DATES:

REDACTED

6. WHAT PRIOR ART (existing patents, articles, known concepts) DO YOU KNOW ABOUT?

REDACTED

7. DO YOU HAVE ANY WITNESSES OR CO-WORKERS WHO KNOW ABOUT THE INVENTION?

REDACTED

NOTE: THE WITNESS SIGNING BELOW SHOULD BE A NON-INVENTOR THAT UNDERSTANDS THE INVENTION.

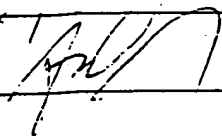
8. DETAILED DESCRIPTION. Please describe the invention as completely as you can,
including technical terms. Identify the central concept or device. Please attach
sketches or notes. Use additional pages as necessary.
See attached sketch.

Inventor(s)
Signature(s):



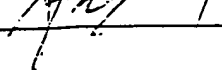
Date: REDACTED

Inventor(s)
Signature(s):



Date:

Witness:



Date: REDACTED